

4.3.1 Institutes frequently updates its IT facilities and provides sufficient bandwidth for internet connection

Atria Institute of Technology has extended the information technology facility to its faculties to augment their training in Teaching-Learning and research activities and offer services to students to utilize the resources in the institution and reach a higher level of awareness for their career. Similar services are expanded to our students to assist them to keep pace with the information that might not be available in the textbooks or that might become obsolete by the time it becomes available in a conventional structure.

Keeping the norms prescribed by AICTE and VTU, the Institution periodically revises its IT infrastructure facilities to facilitate teaching-learning process. The institution is equipped with high end configuration computer systems in laboratories of all its departments and the supporting departments like accounts, admissions, and libraries. The employees are offered laptops for academic, administrative, and research activities. The institution has an internet enabled language laboratory to enable the students to improve their communication and writing skills. Language laboratory software comprises the interactive instructor, student module, lesson composer, and integrated study materials.

The following details sums up the IT facilities of the institution:

Facilities Available	Descriptions
Internet Bandwidth	500 Mbps
Total desktops	667
Total laptops provided to faculties	161
Access Dual Band Points	139
No. of port switches	28
Network topology	Star

The institution currently possesses 500 Mbps of internet leased line and the entire campus is linked through fibre-optic and upgraded according to the latest configurations and trends. The institute has a massive network with CAT 6 connectivity along with 139 access dual band points. A centralized firewall and three-layer switching LAN is available for the entire campus. Cisco and Netgear 48- & 24- port switches are present on each floor of the institute which is connected



ATRIA INSTITUTE OF TECHNOLOGY

ASKB Campus, 1st Main Rd, AGS Colony, Anand Nagar, Hebbal, Bengaluru, Karnataka 560024, India

to the main Cisco 24- port fibre switch. All the laboratories on each floor contain 24- port & 48- port switches with 100/1000 D connectivity. All floors and computer laboratories are connected in Bus topology with 100 Mbps bandwidth. The entire college and residential hostels are having a Wi-Fi facility working at 100 Mbps speed and would be to access the internet on their devices such as laptops, mobiles 24X7.

To facilitate the Academics and Administrative information the institution has Enterprise Resource Planning (ERP) software, and it is utilized to compile and enhance the academic and administrative processes. IP-based CCTV cameras are installed throughout the campus. During this COVID pandemic, the institution widely used IT tools to deliver academic activities to the students without any lapses. The institution initially used Google Meet and later switched to Microsoft Teams to deliver the course content by way of creating each staff and student with an individual login id and password. During the pandemic times, Internal Assessments were conducted through proctor system where each faculty were assigned to monitor 20 students

Recently we have adapted the virtualization technology to meet the new compute demands. Our HPE Proliant DL380 Gen10 8X8 core with Intel-Xeon-gold dual processor of 1TB RAM 6TB storage server is serving 80 Dell wyse thin clients via RDP protocol. Users get to save their work and get connected to the Virtual Machines from anywhere across the campus.